

Rolled Vernation

Auricles usually present, and may be conspicuous/prominent

1. *Pointy auricles*; plentiful *rhizomes*; leaves often have a *blue-green color*, with *rough edges* and *pointy leaf tip*; leaf sheaths may be fuzzy in spring; may have w-shaped “watermark” band on leaf blade.....**quackgrass**
1. *Blunt auricles* with short hairs; *surface of upright-growing leaves shows strong veination/ribbing*; *leaf edges rough*; very short, inconspicuous membranous ligule; base of leaf sheaths may be slightly purple; often *grows in clumps* in bluegrass awns**tall fescue**
1. *Pointy auricles*, without hairs; *light green* leaves, with *smooth margins/edges* and *coarsely-ribbed* surface; leaf tips often shred when mowed; grows as a *bunch grass*.....**annual (Italian) ryegrass**

Auricles not present or apparent

1. Ligule absent; summer annual; older plants (mid- to late summer) form radial stems growing flat on the ground when mowed; most common in new lawns.....**barnyardgrass**
1. Ligule is a fringe of hairs
 2. *Rhizomes and stolons present*; *leaves bend at right angle* where blade is attached to sheath; *long hairs often present on leaf blade surface*; internode spacing very regular and short. A *warm-season grass* that turns green late in spring and becomes brown with first hard fall frost; often forms a thick, puffy thatch layer.**zoysiagrass**
 2. Vernation may appear “rolled”, but is actually FOLDED; *conspicuous, aggressive rhizomes AND stolons*; *surface of leaf blade usually not hairy, except at base*. Internode spacing often irregular.**bermudagrass**
 2. Forms *long stolons*; soft, *gray-green foliage USUALLY covered with short hairs* (but some cultivars are nearly hairless); warm-season species; grows in patches; forms *burr-like flowers/seeds* close to soil surface**buffalograss**
 2. Bunch-type growth when young; older plants (mid/late summer) form dense, flat mat on ground when mowed; bristly seedhead.....**foxtail**
1. Ligule is a membrane
 2. Wider leaf blades (>3/16-1/4 inch); *spreading (rhizomes) to form patches*
 3. *Tall, conspicuous ligule, with rounded tip*; forms *rhizomes*; veins prominent on leaf surface; *leaf blade margins/edges rough*; grass creeps, forming diffuse (not dense) patches.....**redtop**
 3. Inconspicuous, short ligule; forms *strong rhizomes*; grass creeps, forming large diffuse patches; *leaf sheath is closed at top, forming a “V”*; watermark (M or W) may be present on leaf blades**smooth brome**
 2. Wider leaf blades (>3/16-1/4 inch); *bunch-type growth, but may form large clumps/patches*
 3. *Surface of upright-growing leaves shows strong veination/ribbing*; *leaf edges rough*; very short, inconspicuous membranous ligule; base of leaf sheaths may be slightly purple; often *grows in clumps* in bluegrass awns**tall fescue**
 3. Base of plant swollen or bulbous; *blue-green* leaves with *rough margins*; *tall, conspicuous, white toothed ligule*; *upright, bunch-type* growth habit.**timothy**
 3. Seedlings/young plants grow upright; mowing quickly causes plants to form a *dense, prostrate mat*, with stems radiating from the center and lying flat on the ground; *digitate seedheads* formed in summer; warm-season weedy grass**crabgrass**
 2. Leaves very fine and soft (less than 1/8 inch wide; often much finer); forms patches by spreading stolons
 3. *Long stolons*; *tall, white, conspicuous ligule*; fine, soft leaves often *blue-green* in color; *forms dense patches* in lawns**creeping bentgrass**
 3. *Weak, short stolons*, short, white, flat-topped ligule; darker green color**colonial bentgrass**

Folded Vernation

Auricles usually present

1. Auricles short/blunt; *leaf underside very shiny; leaf surface NOT shiny, with distinct veins/ribbing*; ligule short and inconspicuous; *base of leaf sheath often purple/wine-colored* **perennial ryegrass**

Auricles not present

1. *Ligule a fringe of hairs*; vernation may appear “rolled”; *conspicuous, aggressive rhizomes AND stolons; surface of leaf blade not hairy, except at base* **bermudagrass**
1. Membranous ligule VERY short, difficult to see (may appear absent)
 2. Leaves *very narrow and bristle-like* (1-2 mm wide)
 3. Short rhizomes present **creeping red fescue**
 3. Rhizomes absent **Chewings, hard, or sheep fescue**
 2. Leaf blades wider, not bristle-like
 3. Smooth upper leaf surface, except for conspicuous midrib; close examination will reveal *light “line” on either side of midrib*; “boat-shaped” leaf tip; strong rhizome growth **Kentucky bluegrass**
 3. *Underside of leaf very shiny; leaf surface NOT shiny, with distinct veins/ribbing*; ligule short and inconspicuous; *base of leaf sheath often purple/wine-colored* **perennial ryegrass**
1. Membranous ligule is easily visible, and may be prominent/conspicuous
 2. Wide leaves (3/16 to 1/4 inch wide, or more); grows as a clump or bunch/mat
 3. Horizontal stems radiate from crown, *laying flat on the ground*; leaves dark green; *silvery, cellophane-like leaf sheaths* in center of plant; *zipperlike seedheads* in summer **goosegrass**
 3. Stems/leaves grow vertically, grows upright, in a *clump* (not laying flat on the ground); *tall white ligule; leaf sheaths strongly flattened*... **orchardgrass**
 2. Leaves narrow, with “boat-shaped” leaf tips
 3. Light, *apple-green color, seedheads often present*; may grow as a clump/bunch (but perennial types form distinct patches using stoloniferous growth); *tall, white, conspicuous ligule*; leaf blade may have a wrinkled or crinkled band across surface **annual bluegrass**
 3. *Rhizomes present*; pointy, *gray-green* leaves; *stems/sheaths strongly compressed/flattened*; mowing may remove most of the leaves, leaving “stick-like” stems behind **Canada bluegrass**
 3. Forms soft, fine, leaves; *tall, white, conspicuous ligule*; spreads by *creeping stolons*; forms *dense patches* in lawns, which often turn brown in hot weather **rough(stalk) bluegrass**
 2. Leaves fine, bristle-like (1-2 mm wide)
 3. Tall, membranous, white ligule; fine, blue-green leaves; bunch-type growth habit; generally found growing on salty soils (especially wet, salty areas); prolific seed producer **alkaligrass**